

Claims

1. Hydrostatic drive system having at least one hydraulic pump (100) and at least two hydraulic motors (104, 109), wherein the hydraulic pump (100) divides up its overall flow of hydraulic fluid over at least two partial flows of hydraulic fluid which are each delivered in a partial delivery line (101, 102) in a common cylinder drum (23) belonging to the hydraulic pump (100), and wherein at least one first hydraulic motor (104) driving a first drive line (105) is connected by its first connection (103) to the first connection (38) of the first partial delivery line (101) of the hydraulic pump (100), and by its second connection (107) to the second connection (38') of the first delivery line (101) of the hydraulic pump (100), and at least one second hydraulic motor (109) driving a second drive line (110) is connected by its first connection (108) to the first connection (56) of the second partial delivery line (102) of the hydraulic pump (100).
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2. Hydrostatic drive system according to claim 1, characterised in that, if necessary, an equalising flow for equalising a differential takes place, in each case, between the two partial flows of hydraulic fluid in the two particular working conduits (52 and 54, 53 and 55) which are connected, in each case, to the two first or
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second connections (38 and 56, 38' and 56') of the hydraulic pump (100).

3. Hydrostatic drive system according to claim 2,
5 characterised in that

the equalising flow between the two partial flows of hydraulic fluid is realised, in each case, via a 2/2-way valve (123, 124) which is connected between the two working conduits (52 and 54, 53 and 55) and which
10 is closed if necessary.

4. Hydrostatic drive system according to claim 3,
characterised in that

one of the two 2/2-way valves (123, 124) is integrated
15 into the hydraulic pump (100) on the feeding-in and feeding-out sides in each case.

5. Hydrostatic drive system according to one of claims 1 to 4,

20 characterised in that

the hydraulic pump (100) is designed as an adjusting pump.

6. Hydrostatic drive system according to one of claims 1
25 to 5,

characterised in that

each hydraulic motor (104, 109) is designed as a fixed-displacement motor, a torque motor and/or an adjusting motor.